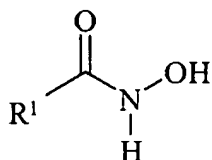


We claim

1. An ink-jet recording material comprising a support and at least one ink-receiving layer containing at least one non-polymeric compound according to formula (I):



formula (I)

wherein,

R^1 is selected from the group consisting of $-\text{CR}^2\text{R}^3\text{R}^4$, $-\text{OCR}^5\text{R}^6\text{R}^7$ and $-\text{NR}^8\text{R}^9$,

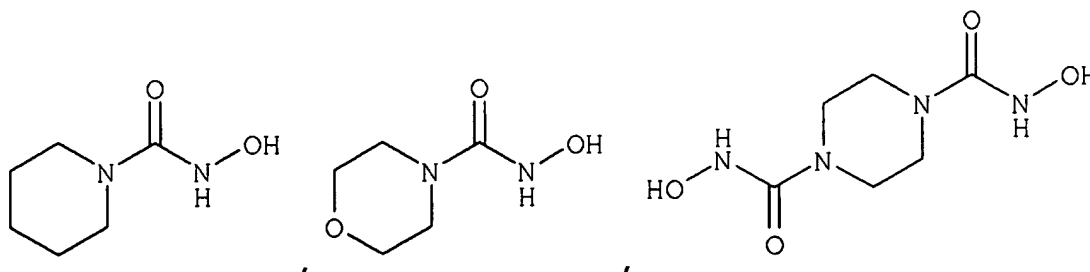
R^2 , R^3 , R^5 , R^6 and R^8 are independently selected from the group consisting of hydrogen, unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

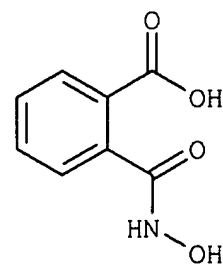
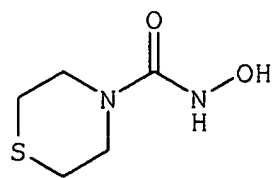
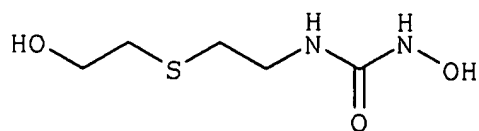
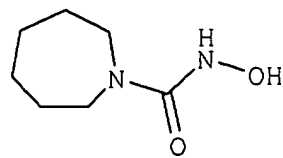
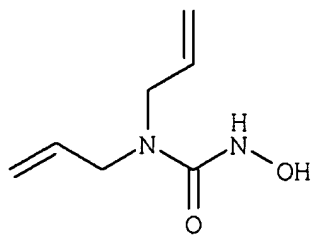
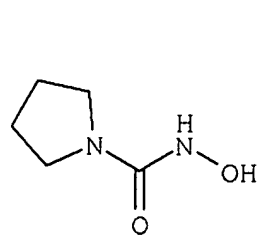
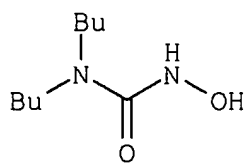
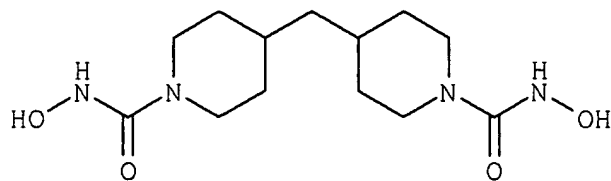
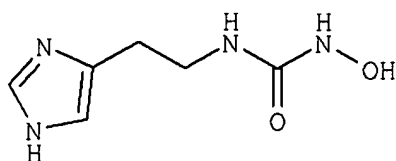
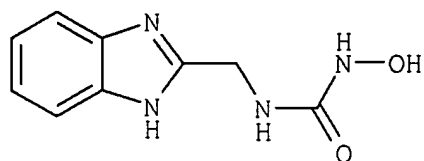
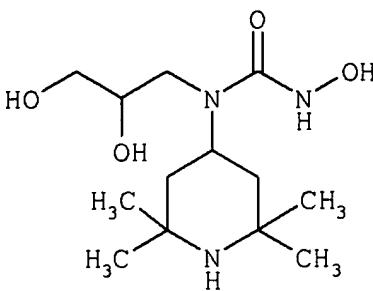
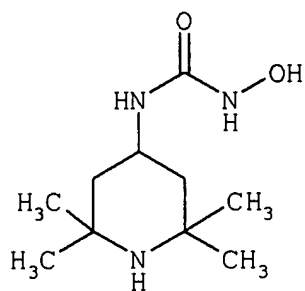
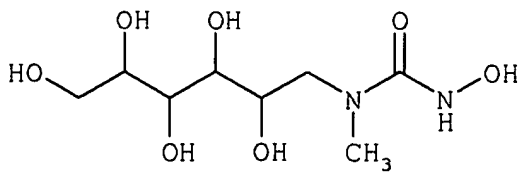
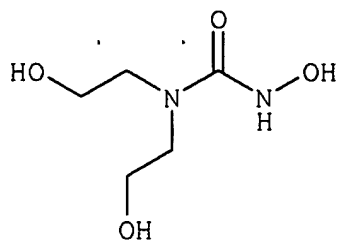
R^4 , R^7 and R^9 are independently selected from the group consisting of unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

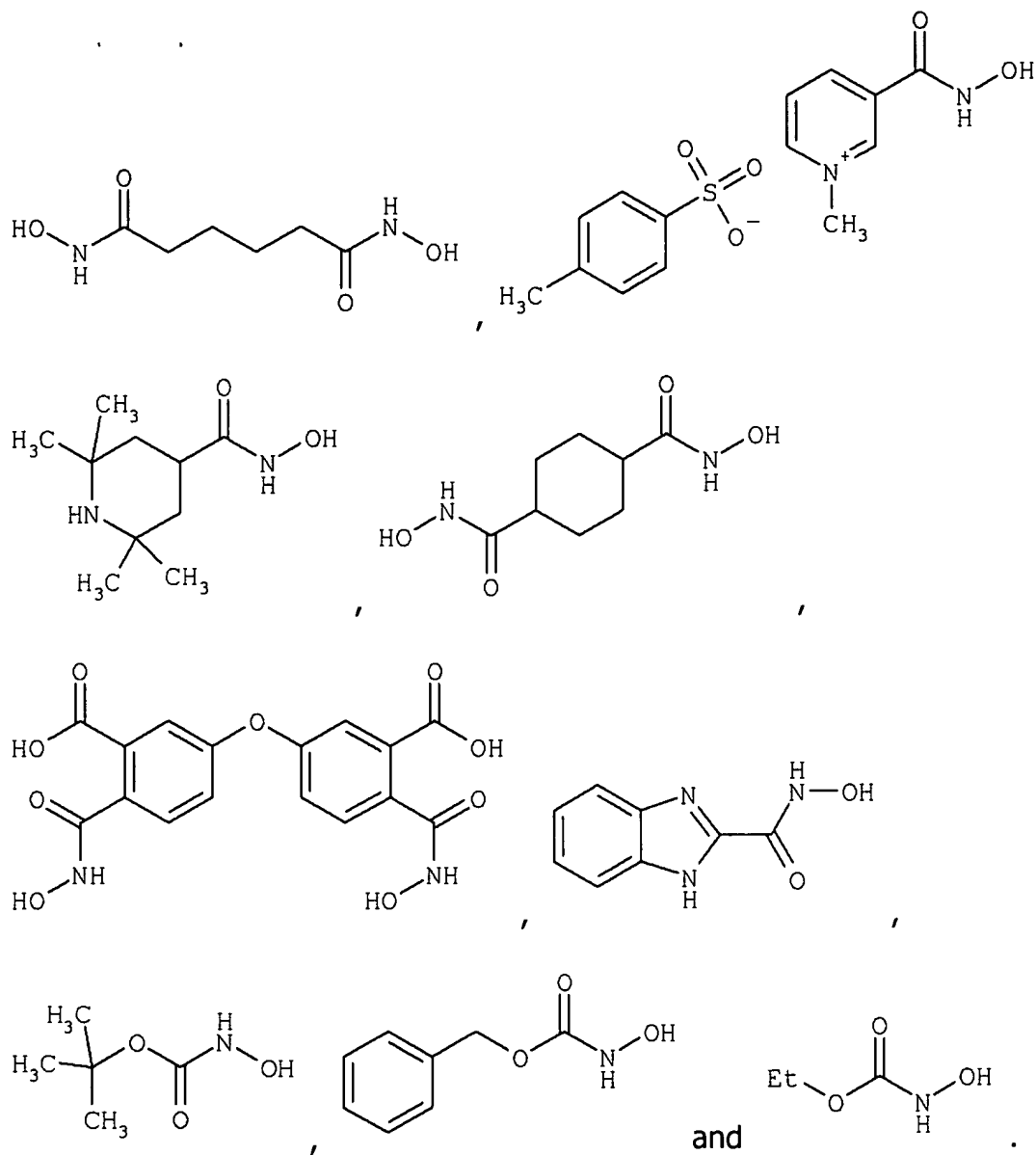
R^3 and R^4 may represent the necessary atoms to form a 5- to 8-membered ring,
 R^5 and R^7 may represent the necessary atoms to form a 5- to 8-membered ring,
and

R^8 and R^9 may represent the necessary atoms to form a 5- to 8-membered ring.

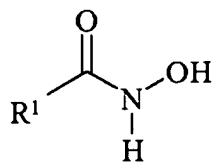
2. An ink-jet recording material according to claim 1 wherein said recording material further comprises a filler in said at least one ink-receiving layer.
3. An ink-jet recording material according to claim 2 wherein said filler is an inorganic filler.
4. An ink-jet recording material according to claim 3 wherein said inorganic filler is selected from the group consisting of silica, alumina, alumina hydrate, and aluminum trihydroxide.
5. An ink-jet recording material according to claim 1 wherein the binder of the at least one ink-receiving layer is a hydrophilic binder.
6. An ink-jet recording material according to claim 5 wherein said hydrophilic binder is a polyvinyl alcohol.
7. Ink-jet recording material according to claim 1, wherein said non-polymeric compound according to formula (I) is selected from the group consisting of







8. An ink-jet ink containing at least one non-polymeric compound according to formula (I) :



formula (I)

wherein,

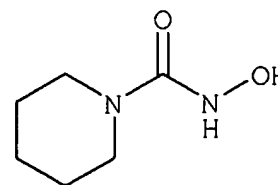
R^1 is selected from the group consisting of $-CR^2R^3R^4$, $-OCR^5R^6R^7$ and $-NR^8R^9$, R^2 , R^3 , R^5 , R^6 and R^8 are independently selected from the group consisting of hydrogen, unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

R^4 , R^7 and R^9 are independently selected from the group consisting of unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

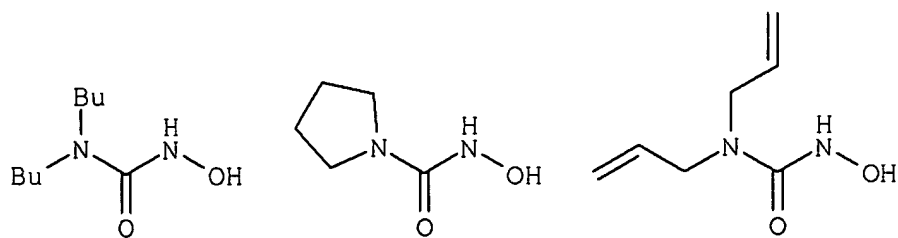
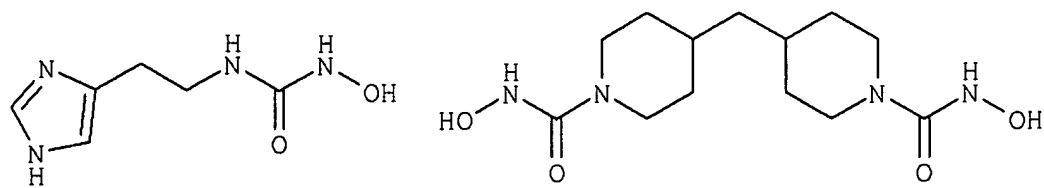
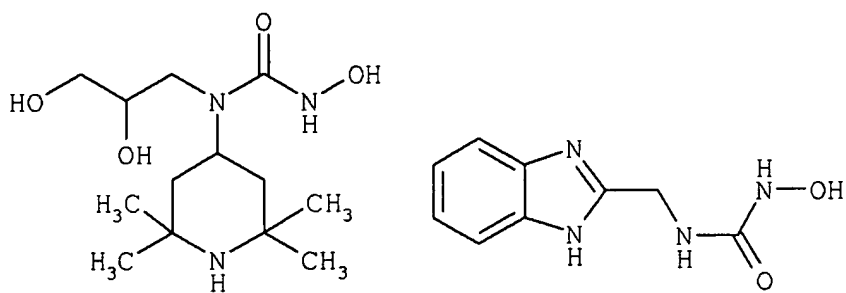
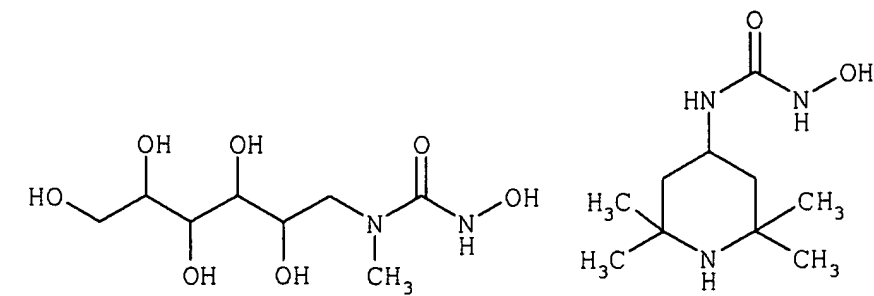
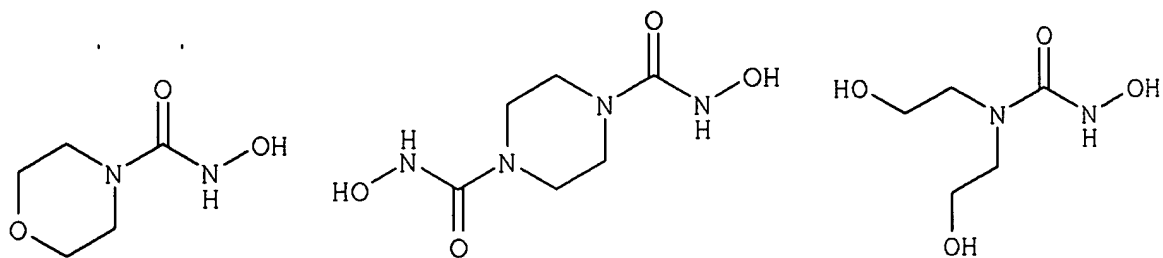
R^3 and R^4 may represent the necessary atoms to form a 5- to 8-membered ring, R^5 and R^7 may represent the necessary atoms to form a 5- to 8-membered ring, and

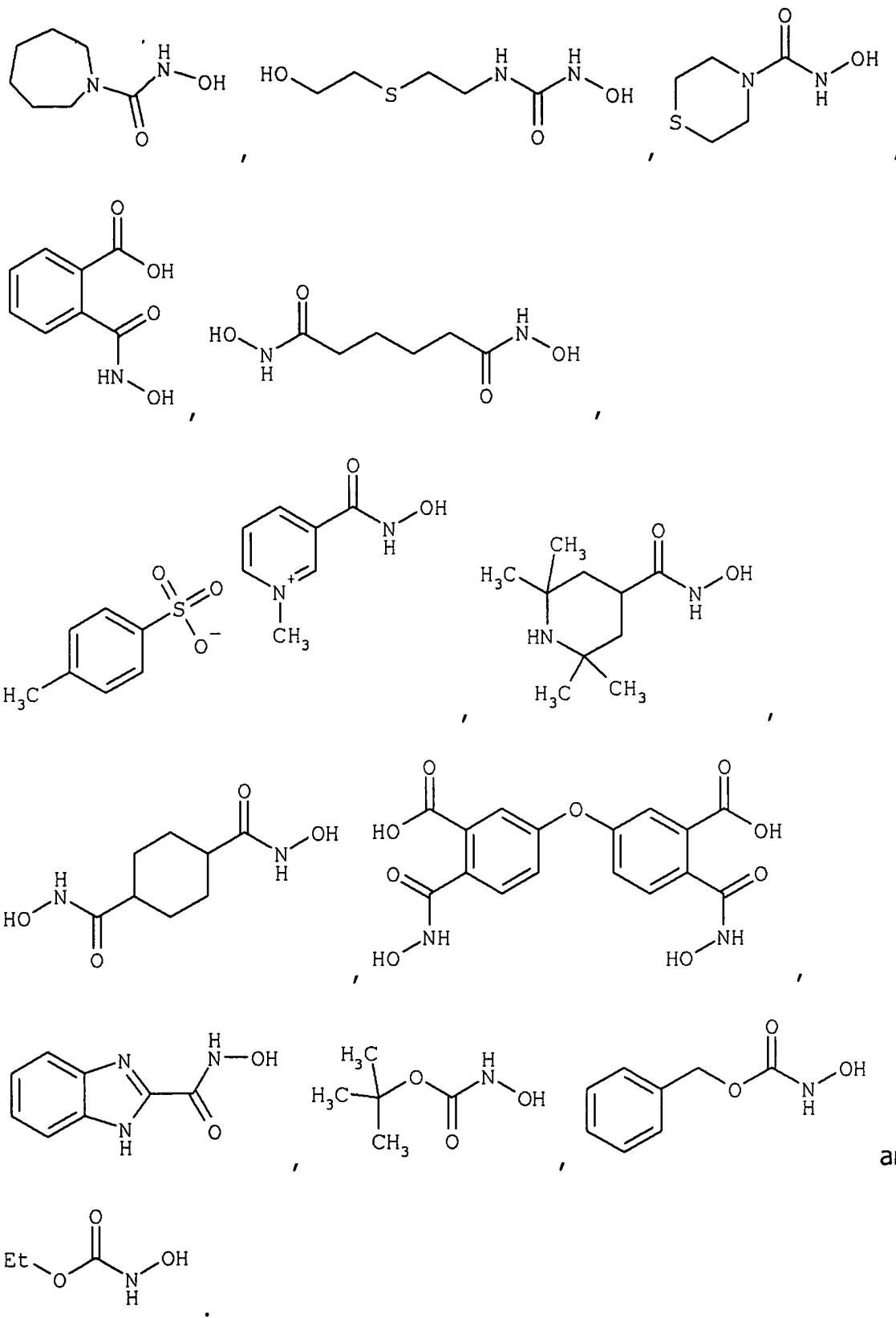
R^8 and R^9 may represent the necessary atoms to form a 5- to 8-membered ring.

9. Ink-jet ink according to claim 8, wherein said non-polymeric compound according

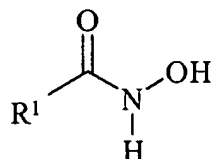


to formula (I) is selected from the group consisting of





10. An ink-jet image comprising at least one ink-jet ink on an ink-jet recording material, wherein said ink-jet image contains a non-polymeric compound according to formula (I) :



formula (I)

wherein,

R^1 is selected from the group consisting of $-\text{CR}^2\text{R}^3\text{R}^4$, $-\text{OCR}^5\text{R}^6\text{R}^7$ and $-\text{NR}^8\text{R}^9$,

R^2 , R^3 , R^5 , R^6 and R^8 are independently selected from the group consisting of hydrogen, unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

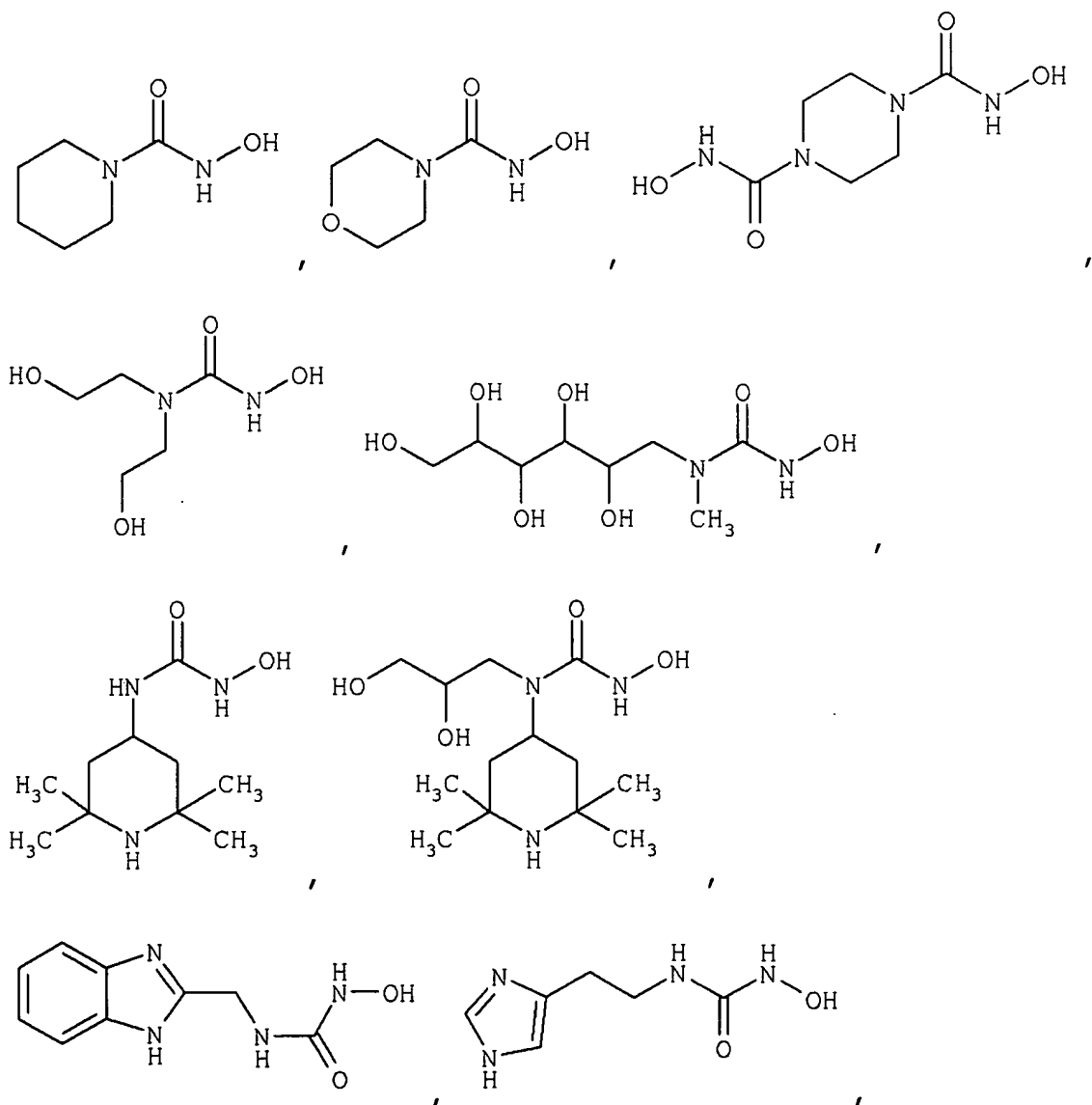
R^4 , R^7 and R^9 are independently selected from the group consisting of unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

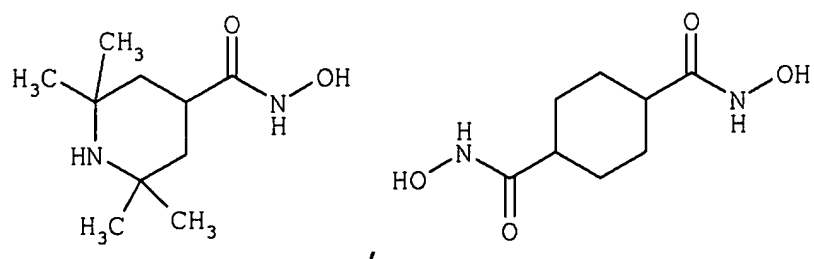
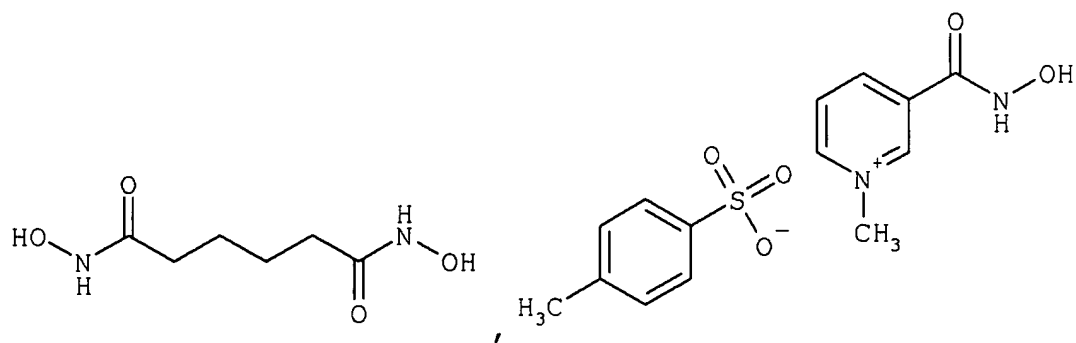
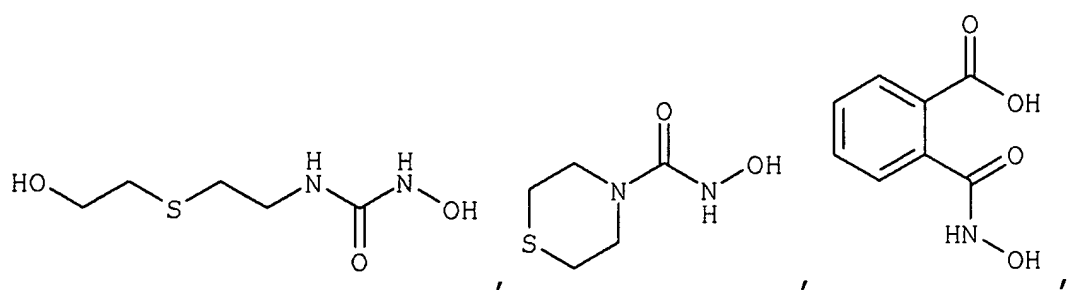
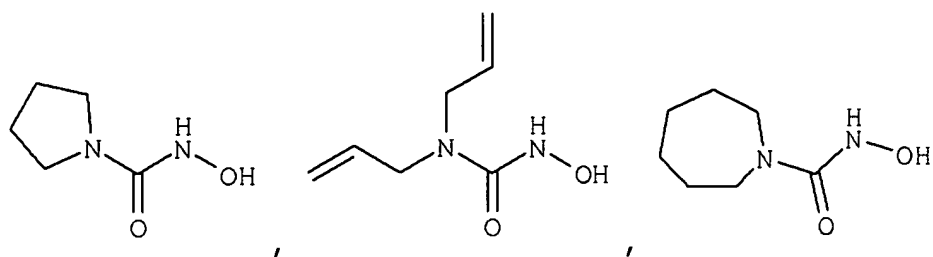
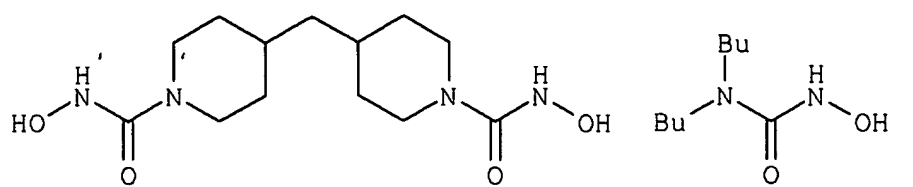
R^3 and R^4 may represent the necessary atoms to form a 5- to 8-membered ring,

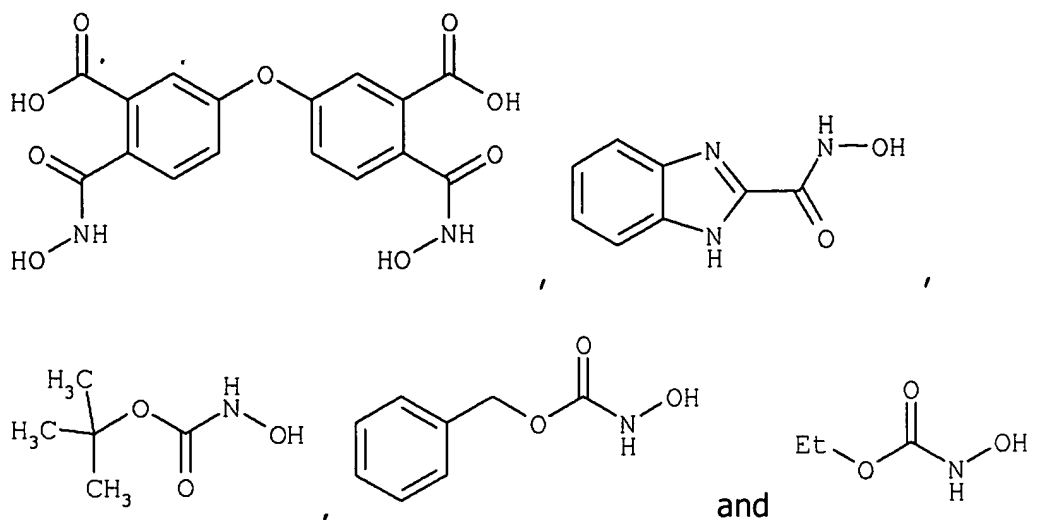
R^5 and R^7 may represent the necessary atoms to form a 5- to 8-membered ring,
and

R^8 and R^9 may represent the necessary atoms to form a 5- to 8-membered ring.

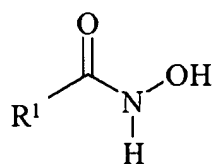
11. Ink-jet image according to claim 10, wherein said non-polymeric compound
according to formula (I) is selected from the group consisting of







12. A process for the use of a non-polymeric compound according to formula (I) :



formula (I)

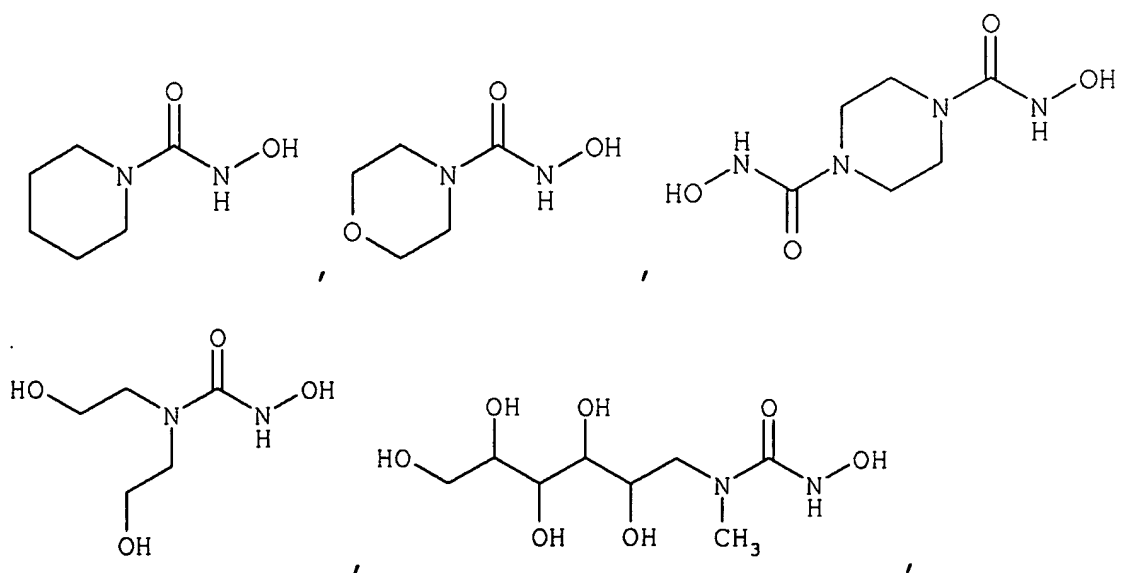
wherein,

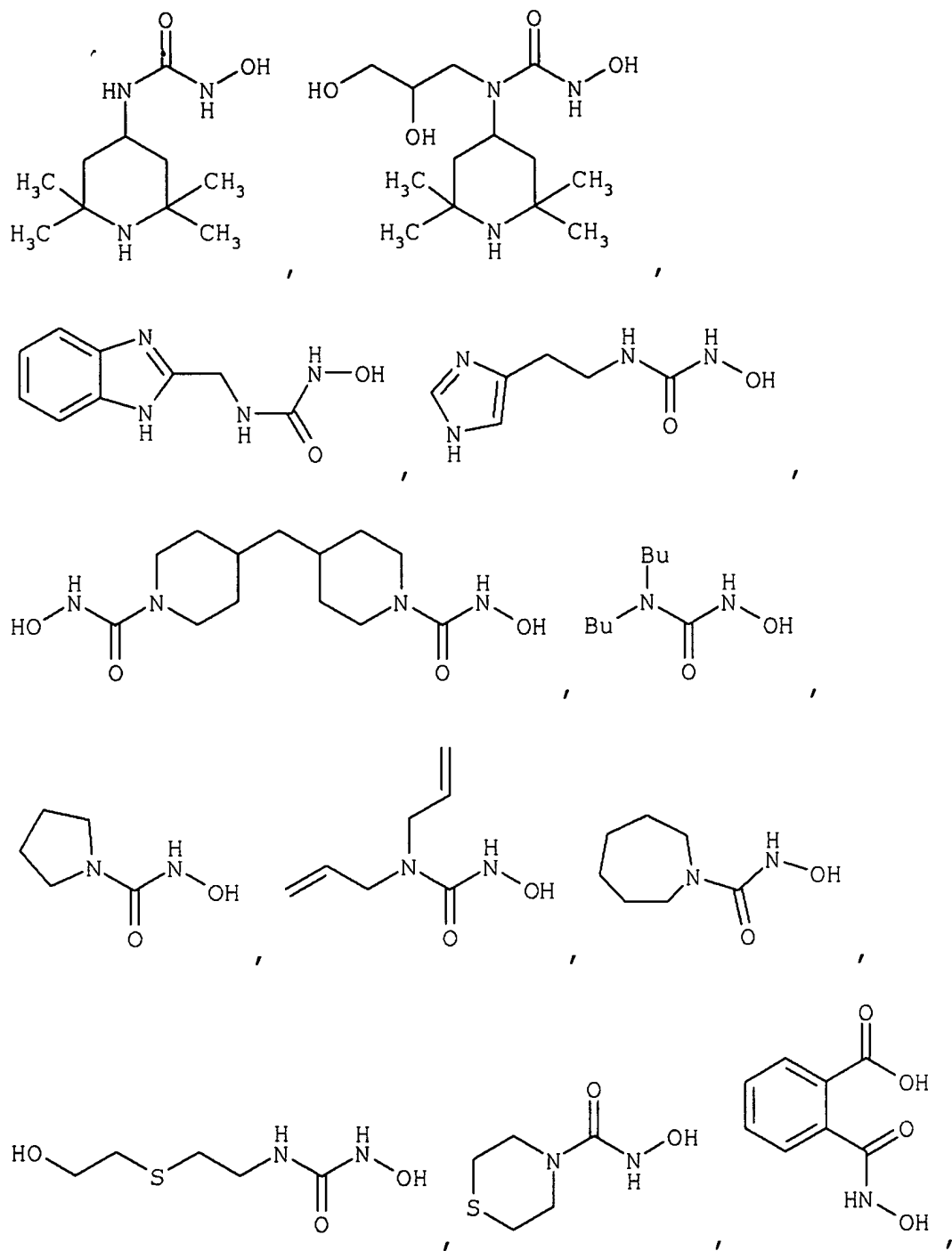
R^1 is selected from the group consisting of $-\text{CR}^2\text{R}^3\text{R}^4$, $-\text{OCR}^5\text{R}^6\text{R}^7$ and $-\text{NR}^8\text{R}^9$,

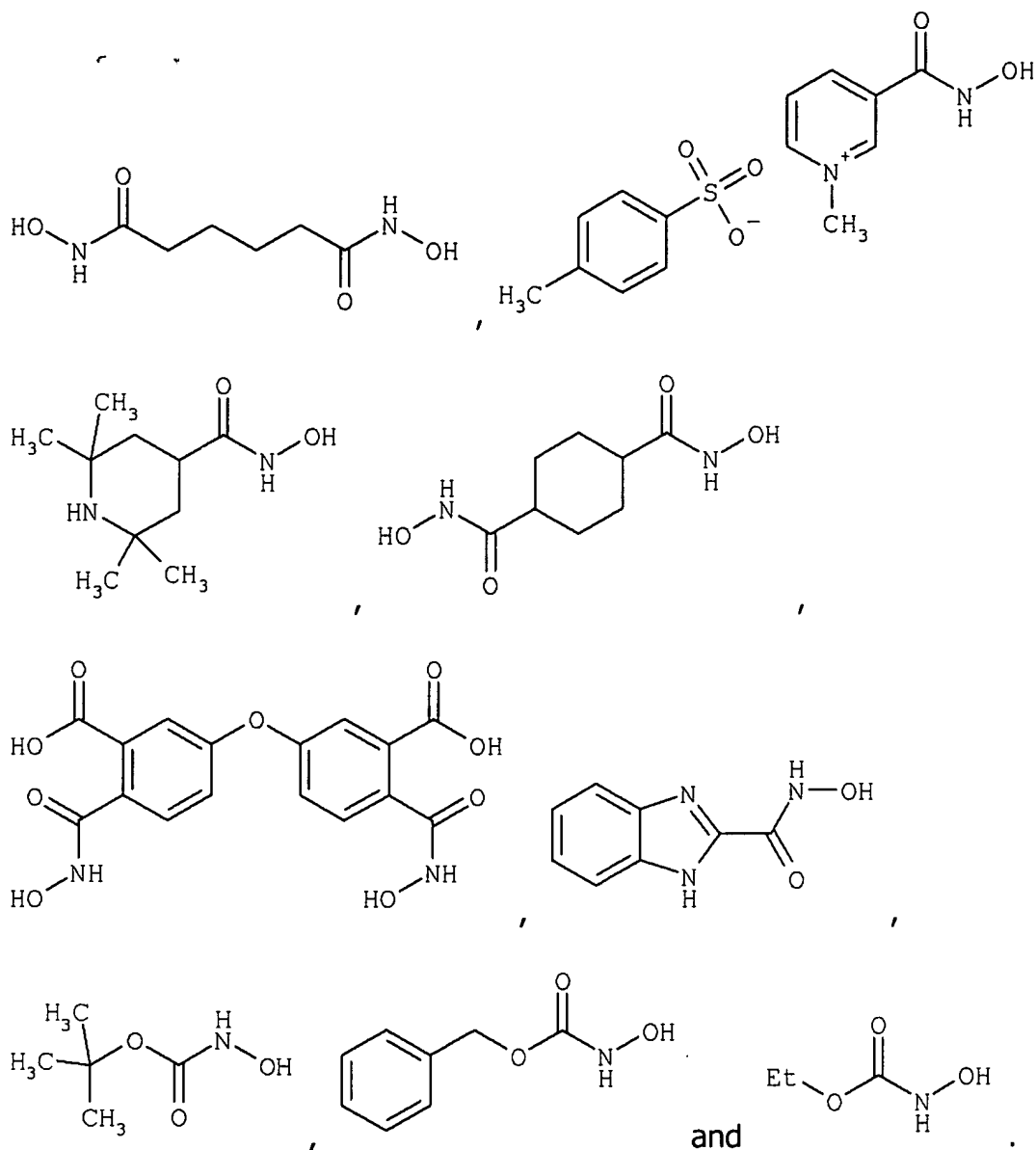
R^2 , R^3 , R^5 , R^6 and R^8 are independently selected from the group consisting of hydrogen, unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring;

R^4 , R^7 and R^9 are independently selected from the group consisting of unsubstituted saturated or unsaturated aliphatic groups, saturated or unsaturated aliphatic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring, unsubstituted saturated or unsaturated alicyclic groups and saturated or unsaturated alicyclic groups substituted with heteroatoms, a substituted or unsubstituted aromatic or heteroaromatic ring; R^3 and R^4 may represent the necessary atoms to form a 5- to 8-membered ring, R^5 and R^7 may represent the necessary atoms to form a 5- to 8-membered ring, and R^8 and R^9 may represent the necessary atoms to form a 5- to 8-membered ring; comprising the step of including said non-polymeric compound in an ink-jet ink, an ink-jet recording material or a liquid for coating on an ink-jet image.

13. Process according to claim 12, wherein said non-polymeric compound according to formula (I) is selected from the group consisting of







14. A method for stabilizing an image on an ink-jet recording material according to claim 1, comprising the steps of:

(1) preparing a coating solution comprising at least one compound according to formula (I), and

(2) coating said coating solution onto a support, an ink-receiving layer or an ink-jet image.